Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: _GWEN LIANG_   Examiner # : _79180_   Date: _4-18-05_

Art Unit: _2162_   Phone Number ~~30~~ x _24038_   Serial Number: _50424539 ; 1082168 7_

Mail Box and Bldg/Room Location: _RND 3B 11_   Results Format Preferred (circle): (PAPER) DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _System and Method for Fragment-Based Serialization_

Inventors (please provide full names): _TEREK, Soner; KALHAN, Ajay; PONNEKANTI, Nagavamsi; RANGARAJAN, Srikumar; ZWILLING, Michael J._

Earliest Priority Filing Date: _4/9/2004_

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

_Background = the unaddressed need in Serialization.
(See CON pages 1-5)_

Concept of invention = (See CON page 5)

_Claim 1 (independant claim to focus)
2-13 (dependent claims for overall understanding)
(See CLM pages)_

* Assignee = Microsoft Corporation

* Keyword: Serialization
* drawings = (show Serialization examples, inclu. prior art) (DRAW pages)

****

Search Notes

Dear Gwen,

Please find below an inventor search in the bibliographic and full-text foreign patent files, as well as keyword searches in the patent and non-patent literature files, both bibliographic and full text.

References of potential pertinence have been tagged, but please review all the packets in case you like something I didn't.

Of those references which have been tagged, please note any manual highlighting which I've done within the document.

In addition to searching on Dialog, I also searched EPO/JPO/Derwent, EBSCO and IEEEXplore.

There may be a few decent references contained herein, but I'll let you determine how useful they may be to you. After our consultation, I reran some databases with your suggestions in mind.

Please contact me if I can refocus or expand any aspect of this case, and please take a moment to provide any feedback (on the form provided) so EIC 2100 may better serve your needs. Good Luck!

Sincerely,

Emory Damron
Technical Information Specialist
EIC 2100, US Patent & Trademark Office
Phone: (571) 272-3520
Emory.damron@uspto.gov

sira
Search and Information
Resources Administration

```
Set      Items    Description
S1        1329    SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR -
                  CLRSERIALIZ? OR CLRSERIALIS?
S2       10850    (STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
                  ONVERS?)(3N)OBJECT?(3N)(BYTE? OR DATA?)
S3      704163    FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT?
                  OR INCHOAT?
S4      564781    SEQUENT? OR SEQUENC? OR SEQUEN?(3N)STOR?(3N)(DATA OR DATUM
                  OR BYTE?)
S5       82023    (HEADER? OR TYPE? OR LENGTH?)(20N)(PAYLOAD? OR PAY()LOAD? -
                  OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV?)
S6        1348    LOB OR LOBS OR LARGE()OBJECT? OR LARGEOBJECT?
S7       14345    (FILE? OR DATA?)()STREAM? OR FILESTREAM? OR DATASTREAM? OR
                  DATATYPE? OR DATA()TYPE? OR COLLECT?()ELEMENT?()(DATA OR DATU-
                  M)
S8        1769    DATAOBJECT? OR DATA()OBJECT?
S9          76    DATAMEMBER? OR DATA()MEMBER?
S10      16876    (RECORD? OR STORE? OR STORAG? OR STORING?)(3N)FORMAT?
S11      56876    (LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?)(5N)(PRED-
                  ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED
                  OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
S12    1587053    ADJACENT? OR NEXT()"TO" OR ABUT? OR PROXIM? OR "NEAR" OR F-
                  LANK? OR BESIDE OR CLOSE
S13      94519    INSTANTIAT? OR UPDAT? OR UP()(DATE? OR DATING?)
S14    1201924    IC=G06F?
S15       2524    S1:S2 AND S3:S9
S16        788    S15 AND S8
S17         31    S16 AND S8 AND (S7 OR S9)
S18          0    S16 AND S9
S19       1642    S15 AND S3:S6
S20        239    S19 AND S1 AND S3:S6
S21        149    S20 AND S10:S14
S22        126    S15 AND S1:S2(5N)S3
S23          8    S22 AND S21
S24        267    S21:S22
S25        164    S24 AND S4:S9
S26         17    S24 AND S11
S27        145    S25 AND S14
S28        139    (S24 OR S27) AND S4
S29          7    (S24 OR S27) AND S5:S6
S30        267    S24 OR S27
S31         18    S30 AND S8:S9
S32        349    S20 OR S21 OR S22 OR S24 OR S25 OR S27 OR S28 OR S30
S33        123    S32 AND (S1 OR S3)/TI
S34          7    S32 AND (S1 AND S3)/TI
S35         17    S32 AND S11
S36         80    S17 OR S23 OR S26 OR S29 OR S31 OR S34:S35
S37         30    S36 AND S33
S38         80    S36:S37
S39        287    PR=2005
S40         80    S38 NOT S39
S41         80    IDPAT (sorted in duplicate/non-duplicate order)
? show files
File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200529
         (c) 2005  Thomson Derwent
?
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Par Lit

Bibliog

Files

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Set      Items    Description
S1    .  10859    (STORE? OR.STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
                  ONVERS?)(3N)OBJECT?(3N)(BYTE? OR DATA?)
S2       23655    (SEQUENT? OR SEQUENC? OR SERIAL?)(5N)(STORE? OR STORING OR
                  STORAG?)
S3       51157    (FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCA-
                  T? OR INCHOAT? OR SNIPPET? OR BYTE? OR LENGTH? OR PRIMITIV?)(-
                  7N)(FIXED? OR STATIC? OR VARIAB? OR COMPLEX?)
S4       82064    (HEADER? OR TYPE? OR LENGTH?)(20N)(PAYLOAD? OR PAY()LOAD? -
                  OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL?()REFEREN?)
S5        1350    LOB OR LOBS OR LARGE()OBJECT? OR LARGEOBJECT?
S6       14367    (FILE? OR DATA?)()STREAM? OR FILESTREAM? OR DATASTREAM? OR
                  DATATYPE? OR DATA()TYPE? OR COLLECT?()ELEMENT?()(DATA OR DATU-
                  M)
S7        1770    DATAOBJECT? OR DATA()OBJECT?
S8          76    DATAMEMBER? OR DATA()MEMBER?
S9     1203146    IC=G06F?
S10         20    S1:S2 AND S3 AND S4:S8
S11   .     16    S10 AND S9
S12         20    S10:S11
? show files
File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200530
         (c) 2005  Thomson Derwent
?
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Set       Items     Description
S1         5060     SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR -
                    CLRSERIALIZ? OR CLRSERIALIS?
S2        12476     (STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
                    ONVERS?)(3N)OBJECT?(3N)(BYTE? OR DATA?)
S3       757202     FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT?
                    OR INCHOAT?
S4       471969     SEQUENT? OR SEQUENC? OR SEQUEN?(3N)STOR?(3N)(DATA OR DATUM
                    OR BYTE?)
S5       113769     (HEADER? OR TYPE? OR LENGTH?)(20N)(PAYLOAD? OR PAY()LOAD? -
                    OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL?()REFEREN?)
S6         6570     LOB OR LOBS OR LARGE()OBJECT? OR LARGEOBJECT?
S7        37380     (FILE? OR DATA?)()STREAM? OR FILESTREAM? OR DATASTREAM? OR
                    DATATYPE? OR DATA()TYPE? OR COLLECT?()ELEMENT?()(DATA OR DATU-
                    M)
S8         4711     DATAOBJECT? OR DATA()OBJECT?
S9          639     DATAMEMBER? OR DATA()MEMBER?
S10       22963     (RECORD? OR STORE? OR STORAG? OR STORING?)(3N)FORMAT?
S11      154221     (LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?)(5N)(PRED-
                    ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED
                    OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
S12      960742     ADJACENT? OR NEXT()"TO" OR ABUT? OR PROXIM? OR "NEAR" OR F-
                    LANK? OR BESIDE OR CLOSE OR CONTIGU?
S13      115330     INSTANTIAT? OR UPDAT? OR UP()(DATE? OR DATING?)
S14      143713     IC=G06F?
S15         367     S1:S2(10N)S3
S16          79     S1:S2(10N)S5
S17         433     S15:S16
S18         249     S17 AND S14
S19         337     S17 AND S7:S11
S20          83     S19 AND S7 AND S8:S9
S21           4     S17 AND S8:S9(5N)S12(5N)S4
S22           0     S19 AND (S1 AND S3)/TI
S23          37     S17 AND (S1 OR S3:S5)/TI
S24          13     S15 AND S16
S25          71     S18 AND S10
S26          67     S25 AND S4
S27          55     S26 AND S11
S28         140     S20:S21 OR S23:S24 OR S27
S29           4     AD=2005
S30         140     S28 NOT S29
S31         140     IDPAT (sorted in duplicate/non-duplicate order)
? show files
File 348:EUROPEAN PATENTS 1978-2005/May W01
         (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050505,UT=20050428
         (c) 2005 WIPO/Univentio
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Set     Items     Description
S1       5060     SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR -
                  CLRSERIALIZ? OR CLRSERIALIS?
S2      12476     (STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
                  ONVERS?)(3N)OBJECT?(3N)(BYTE? OR DATA?)
S3     757202     FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT?
                  OR INCHOAT?
S4     471969     SEQUENT? OR SEQUENC? OR SEQUEN?(3N)STOR?(3N)(DATA OR DATUM
                  OR BYTE?)
S5     113769     (HEADER? OR TYPE? OR LENGTH?)(20N)(PAYLOAD? OR PAY()LOAD? -
                  OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL?()REFEREN?)
S6       6570     LOB OR LOBS OR LARGE()OBJECT? OR LARGEOBJECT?
S7      37380     (FILE? OR DATA?)()STREAM? OR FILESTREAM? OR DATASTREAM? OR
                  DATATYPE? OR DATA()TYPE? OR COLLECT?()ELEMENT?()(DATA OR DATU-
                  M)
S8       4711     DATAOBJECT? OR DATA()OBJECT?
S9        639     DATAMEMBER? OR DATA()MEMBER?
S10     22963     (RECORD? OR STORE? OR STORAG? OR STORING?)(3N)FORMAT?
S11    154221     (LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?)(5N)(PRED-
                  ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED
                  OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
S12    960742     ADJACENT? OR NEXT()"TO" OR ABUT? OR PROXIM? OR "NEAR" OR F-
                  LANK? OR BESIDE OR CLOSE OR CONTIGU?
S13    115330     INSTANTIAT? OR UPDAT? OR UP()(DATE? OR DATING?)
S14    143713     IC=G06F?
S15       367     S1:S2(10N)S3
S16        79     S1:S2(10N)S5
S17       433     S15:S16
S18       249     S17 AND S14
S19       337     S17 AND S7:S11
S20        83     S19 AND S7 AND S8:S9
S21         4     S17 AND S8:S9(5N)S12(5N)S4
S22         0     S19 AND (S1 AND S3)/TI
S23        37     S17 AND (S1 OR S3:S5)/TI
S24        13     S15 AND S16
S25        71     S18 AND S10
S26        67     S25 AND S4
S27        55     S26 AND S11
S28       140     S20:S21 OR S23:S24 OR S27
S29         4     AD=2005
S30       140     S28 NOT S29
S31       140     IDPAT (sorted in duplicate/non-duplicate order)
S32        34     S17 AND S1:S2(5N)FRAGMENT?
S33        24     S32 NOT S28
S34        24     IDPAT (sorted in duplicate/non-duplicate order)
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SUPPLEMENTAL STRATEGY

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Set      Items    Description
S1       27482    SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR -
                  CLRSERIALIZ? OR CLRSERIALIS?
S2       15504    (STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
                  ONVERS?)(3N)OBJECT?(3N)(BYTE? OR DATA?)
S3       4676616  FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT?
                  OR INCHOAT? OR SNIPPET?
S4       1132279  SEQUENT? OR SEQUENC? OR SEQUEN?(3N)STOR?(3N)(DATA OR DATUM
                  OR BYTE?)
S5       140139   (HEADER? OR TYPE? OR LENGTH?)(20N)(PAYLOAD? OR PAY()LOAD? -
                  OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL?()REFEREN?)
S6       35030    LOB OR LOBS OR LARGE()OBJECT? OR LARGEOBJECT?
S7       104814   (FILE? OR DATA?)()STREAM? OR FILESTREAM? OR DATASTREAM? OR
                  DATATYPE? OR DATA()TYPE? OR COLLECT?()ELEMENT?()(DATA OR DATU-
                  M)
S8       9491     DATAOBJECT? OR DATA()OBJECT?
S9       1636     DATAMEMBER? OR DATA()MEMBER?
S10      102778   (RECORD? OR STORE? OR STORAG? OR STORING?)(3N)FORMAT?
S11      1323061  (LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?)(5N)(PRED-
                  ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED
                  OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
S12      11499952 ADJACENT? OR NEXT()"TO" OR ABUT? OR PROXIM? OR "NEAR" OR F-
                  LANK? OR BESIDE OR CLOSE OR CONTIGU?
S13      274      S1:S2(10N)(S3 OR S5)
S14      89       S13 AND (S4 OR S6:S9)
S15      133      S13 AND S1(10N)S3
S16      16       S13 AND S11
S17      8        S13 AND S12(10N)(S4 OR S6:S9)
S18      207      S14:S17
S19      95       S18 AND (S14 OR S16:S17)
S20      95       S19 AND PY<2005
S21      64       RD (unique items)
? show files
File    9:Business & Industry(R) Jul/1994-2005/May 11
          (c) 2005  The Gale Group
File   13:BAMP 2005/May W1
          (c) 2005  The Gale Group
File   15:ABI/Inform(R) 1971-2005/May 12
          (c) 2005 ProQuest Info&Learning
File   16:Gale Group PROMT(R) 1990-2005/May 11
          (c) 2005 The Gale Group
File   20:Dialog Global Reporter 1997-2005/May 12
          (c) 2005 The Dialog Corp.
File   47:Gale Group Magazine DB(TM) 1959-2005/May 12
          (c) 2005 The Gale group
File   75:TGG Management Contents(R) 86-2005/May W1
          (c) 2005 The Gale Group
File   88:Gale Group Business A.R.T.S. 1976-2005/May 11
          (c) 2005 The Gale Group
File   98:General Sci Abs/Full-Text 1984-2004/Dec
          (c) 2005 The HW Wilson Co.
File  141:Readers Guide 1983-2005/Dec
          (c) 2005 The HW Wilson Co
File  148:Gale Group Trade & Industry DB 1976-2005/May 12
          (c)2005 The Gale Group
File  160:Gale Group PROMT(R) 1972-1989
          (c) 1999 The Gale Group
File  239:Mathsci 1940-2005/Jun
          (c) 2005 American Mathematical Society
File  275:Gale Group Computer DB(TM) 1983-2005/May 12
          (c) 2005 The Gale Group
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Non Pat
Lit

Full
Text

.evier.com

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File 369:New Scientist 1994-2005/Apr W1
          (c) 2005 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
          (c) 1999 AAAS
File 484:Periodical Abs Plustext 1986-2005/May W2
          (c) 2005 ProQuest
File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
          (c) 2005 The HW Wilson Co
File 610:Business Wire 1999-2005/May 12
          (c) 2005 Business Wire.
File 613:PR Newswire 1999-2005/May 12
          (c) 2005 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2005/May 12
          (c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/May 11
          (c) 2005 McGraw-Hill Co. Inc
File 634:San Jose Mercury  Jun 1985-2005/May 11.
          (c) 2005 San Jose Mercury News
File 635:Business Dateline(R) 1985-2005/May 12
          (c) 2005 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2005/May 12
          (c) 2005 The Gale Group
File 647:CMP  Computer Fulltext 1988-2005/Apr W4
          (c) 2005 CMP Media, LLC
File 674:Computer News Fulltext 1989-2005/May W2
          (c) 2005 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2005/May 11
          (c) 2005 The Dialog Corp.
File 810:Business Wire 1986-1999/Feb 28
          (c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
          (c) 1999 PR Newswire Association Inc
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Set      Items    Description
S1        5461    SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR -
                  CLRSERIALIZ? OR CLRSERIALIS?
S2        9137    (STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
                  ONVERS?)(3N)OBJECT?(3N)(BYTE? OR DATA?)
S3     2560955    FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT?
                  OR INCHOAT? OR SNIPPET?
S4     1931668    SEQUENT? OR SEQUENC? OR SEQUEN?(3N)STOR?(3N)(DATA OR DATUM
                  OR BYTE?)
S5       39898    (HEADER? OR TYPE? OR LENGTH?)(20N)(PAYLOAD? OR PAY()LOAD? -
                  OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL?()REFEREN?)
S6        3304    LOB OR LOBS OR LARGE()OBJECT? OR LARGEOBJECT?
S7       36031    (FILE? OR DATA?)()STREAM? OR FILESTREAM? OR DATASTREAM? OR
                  DATATYPE? OR DATA()TYPE? OR COLLECT?()ELEMENT?()(DATA OR DATU-
                  M)
S8        4365    DATAOBJECT? OR DATA()OBJECT?
S9         158    DATAMEMBER? OR DATA()MEMBER?
S10      11701    (RECORD? OR STORE? OR STORAG? OR STORING?)(3N)FORMAT?
S11     318890    (LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?)(5N)(PRED-
                  ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED
                  OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
S12    2757830    ADJACENT? OR NEXT()"TO" OR ABUT? OR PROXIM? OR "NEAR" OR F-
                  LANK? OR BESIDE OR CLOSE OR CONTIGU?
S13        957    S1:S2 AND (S3 OR S5)
S14        277    S13 AND S1 AND S3
S15         38    S14 AND (S4 OR S6)
S16         22    S14 AND S7:S9
S17          3    S14 AND S10:S11
S18          0    S14 AND S12(10N)(S4 OR S7:S11)
S19          7    S14 AND S12
S20        136    S13 AND (S4 OR S6)
S21         84    S13 AND S7:S9
S22         19    S13 AND S10:S11
S23          6    S13 AND S12(10N)(S4 OR S7:S11)
S24         11    S20 AND S21
S25         99    S15:S19 OR S22:S24
S26         99    S25 AND PY<2005
S27         70    RD (unique items)
? show files
File    2:INSPEC 1969-2005/Apr W4
        (c) 2005 Institution of Electrical Engineers
File    6:NTIS 1964-2005/May W1
        (c) 2005 NTIS, Intl Cpyrght All Rights Res
File    8:Ei Compendex(R) 1970-2005/May W1
        (c) 2005 Elsevier Eng.  Info. Inc.
File   34:SciSearch(R) Cited Ref Sci 1990-2005/May W2
        (c) 2005 Inst for Sci Info
File   35:Dissertation Abs Online 1861-2005/Apr
        (c) 2005 ProQuest Info&Learning
File   62:SPIN(R) 1975-2005/Feb W4
        (c) 2005 American Institute of Physics
File   65:Inside Conferences 1993-2005/May W2
        (c) 2005 BLDSC all rts. reserv.
File   94:JICST-EPlus 1985-2005/Mar W3
        (c)2005 Japan Science and Tech Corp(JST)
File   95:TEME-Technology & Management 1989-2005/Apr W1
        (c) 2005 FIZ TECHNIK
File   99:Wilson Appl. Sci & Tech Abs 1983-2005/Apr
        (c) 2005 The HW Wilson Co.
File  111:TGG Natl.Newspaper Index(SM) 1979-2005/May 11
        (c) 2005 The Gale Group
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File 144:Pascal 1973-2005/May W1
        (c) 2005 INIST/CNRS
File 256:TecInfoSource 82-2005/Mar
        (c) 2005 Info.Sources Inc
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
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Set       Items     Description
S1         5461     SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR -
                    CLRSERIALIZ? OR CLRSERIALIS?
S2         9137     (STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
                    ONVERS?)(3N)OBJECT?(3N)(BYTE? OR DATA?)
S3      2560955     FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT?
                    OR INCHOAT? OR SNIPPET?
S4      1931668     SEQUENT? OR SEQUENC? OR SEQUEN?(3N)STOR?(3N)(DATA OR DATUM
                    OR BYTE?)
S5        39898     (HEADER? OR TYPE? OR LENGTH?)(20N)(PAYLOAD? OR PAY()LOAD? -
                    OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL?()REFEREN?)
S6         3304     LOB OR LOBS OR LARGE()OBJECT? OR LARGEOBJECT?
S7        36031     (FILE? OR DATA?)()STREAM? OR FILESTREAM? OR DATASTREAM? OR
                    DATATYPE? OR DATA()TYPE? OR COLLECT?()ELEMENT?()(DATA OR DATU-
                    M)
S8         4365     DATAOBJECT? OR DATA()OBJECT?
S9          158     DATAMEMBER? OR DATA()MEMBER?
S10       11701     (RECORD? OR STORE? OR STORAG? OR STORING?)(3N)FORMAT?
S11      318890     (LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?)(5N)(PRED-
                    ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED
                    OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
S12     2757830     ADJACENT? OR NEXT()"TO" OR ABUT? OR PROXIM? OR "NEAR" OR F-
                    LANK? OR BESIDE OR CLOSE OR CONTIGU?
S13         957     S1:S2 AND (S3 OR S5)
S14         277     S13 AND S1 AND S3
S15          38     S14 AND (S4 OR S6)
S16          22     S14 AND S7:S9
S17           3     S14 AND S10:S11
S18           0     S14 AND S12(10N)(S4 OR S7:S11)
S19           7     S14 AND S12
S20         136     S13 AND (S4 OR S6)
S21          84     S13 AND S7:S9
S22          19     S13 AND S10:S11
S23           6     S13 AND S12(10N)(S4 OR S7:S11)
S24          11     S20 AND S21
S25          99     S15:S19 OR S22:S24
S26          99     S25 AND PY<2005
S27          70     RD (unique items)
S28          75     S14 AND (S1 OR S3)/TI
S29          60     S28 NOT S26
S30          42     RD (unique items)
S31          11     S13 AND (S1 AND S3)/TI
S32           0     S31 NOT (S29 OR S25)
?
```

SUPPLEMENTAL